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**From:** Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]  
**Sent:** 3/28/2016 7:05:27 PM  
**To:** Arlene Blum [arleneb@lmi.net]  
**CC:** Lindstrom, Andrew [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=04bf7cf26aa44ce29763fbc1c1b2338e-Lindstrom, Andrew]  
**Subject:** RE: The latest PFC stories, FYI  
**Attachments:** PFCs structures for Arlene Blum.pptx; Hoke et al 2016 GenX is OK.pdf; Gordon ADONA 2011.pdf

Arlene,

Here is a powerpoint illustration of the traditional PFCs and what is known to be replacing them. On point of confusion is many really do not know what the replacements are. Here are some we know to be true. I am unsure if the PFHXS (C6 sulfonate) is replacing PFOS at all. However with the PFOA replacements we know they are sometimes called "C6". As this is ambiguous, I have asked for what "C6 means". Best I can tell is Gen X is meant at DuPont/Chemours. At 3M they have replaced PFOA with ADONA. I am attaching a couple of papers on what ADONA and GenX are as well.

Mark

-----Original Message-----

From: Arlene Blum [mailto:arleneb@lmi.net]  
Sent: Sunday, March 27, 2016 6:44 PM  
To: Strynar, Mark <Strynar.Mark@epa.gov>; Sara Petty <Eden@greensciencepolicy.org>  
Cc: Lau, Chris <Lau.Christopher@epa.gov>  
Subject: RE: The latest PFC stories, FYI

Dear Mark,

Thanks so much for the info on GenX.

We are putting together short webinars for designers who don't know chemistry to teach them about PFASs and the rest of the Six Classes.

Chris wrote us that you have good illustrations of molecular structure. Can you send us illustrations of PFOA being replaced by C6 carboxylate (PFHxA)? Is there also a C4 carboxylic acids that is used to replace PFOA?

Also, might you have an illustration of PFOS being replaced by C4 sulfonate (PFBS)? Is it also replaced by C6 sulfonate?

Thanks again,  
Arlene

At 04:32 AM 3/7/2016, you wrote:

>GenX is the new replacement compound DuPont (now  
>Chemours) came up with to replace PFOA in the production of PTFE  
>(Teflon). It is a polymerization aid.

>

>Here is a PDF from the company on it and the structure.

>Mark

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>[]

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>From: Arlene Blum [mailto:arleneb@lmi.net]

>Sent: Thursday, March 03, 2016 5:58 PM

>To: Lau, Chris <Lau.Christopher@epa.gov>; Lindstrom, Andrew

><Lindstrom.Andrew@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>

>Subject: Fwd: The latest PFC stories, FYI

>

>FYI

>What is GenX?

>

>Arlene Blum, PhD  
>Green Science Policy Institute  
>Office: 510 898 1739

**Personal Phone / Ex. 6**

><<http://www.greensciencepolicy.org>>[www.greensciencepolicy.org](http://www.greensciencepolicy.org)

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>Begin forwarded message:

>From: Sharon Lerner

><<<mailto:sharon.lerner@theintercept.com>>[sharon.lerner@theintercept.com](mailto:sharon.lerner@theintercept.com)>

>Date: March 3, 2016 at 2:21:51 PM MST

>To: Arlene Blum

><<<mailto:arlene@greensciencepolicy.org>>[arlene@greensciencepolicy.org](mailto:arlene@greensciencepolicy.org)>

>Subject: The latest PFC stories, FYI

>Hi Arlene-

>I hope youâ€™re doing well.

>Here are the latest DuPont stories FYI.

><[https://theintercept.com/2016/03/03/how-dupont-concealed-the-dangers-o](https://theintercept.com/2016/03/03/how-dupont-concealed-the-dangers-of-the-new-teflon-toxin/)

>[f-the-new-teflon-toxin/](https://theintercept.com/2016/03/03/how-dupont-concealed-the-dangers-of-the-new-teflon-toxin/)>[https://theintercept.com/2016/03/03/how-dupont-](https://theintercept.com/2016/03/03/how-dupont-concealed-the-dangers-of-the-new-teflon-toxin/)

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>[https://theintercept.com/2016/03/03/new-teflon-toxin-causes-cancer-in-l](https://theintercept.com/2016/03/03/new-teflon-toxin-causes-cancer-in-lab-animals/)  
>[ab-animals/](https://theintercept.com/2016/03/03/new-teflon-toxin-causes-cancer-in-lab-animals/)

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>best,

>Sharon

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>

>Sharon Lerner

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